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A hypothesis of technological advances in the design of biological cell robot as HIV vaccine

Yaoying Xie, Fan Yang, Xiaoyu Liao

Abstract

High genetic variability of HIV has been a major intractable challenge to the practical design of vaccines. But a recent pioneer study published in PNAS Xenobots, is likely to

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Advances in Antiviral vaccine development

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3821995

While early vaccines were developed empirically by passage in live animals or eggs, more recent vaccines have been developed because of the advent of new **technologies**, particularly **cell culture** and **molecular biology**. Recent **technological advances** in gene delivery and expression, nanoparticles, **protein manufacturing**, and adjuvants have created the potential for new vaccine platforms that may ...

Cited by: 24 **Author:** Barney S. Graham
Publish Year: 2013

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A new complementary immunoproteomics technologies called **immunosignaturing** has developed based on the measuring of **serum antibody reactivity spectrum** against **random sequence peptide arrays**, and applied to defining immunosignatures of **serum antibody responses** against infection or vaccine (Legutki et al., 2010).

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https://sfamjournals.onlinelibrary.wiley.com/doi/10.1111/j.1751-7915.2011.00321.x

Dec 21, 2011 · Systems vaccinology: from **vaccine** conception and **design** to protection of the organism. The goal of a good **vaccine** is to obtain a sustained immune memory in T- and/or B-**cell** compartments, allowing the host to respond more rapidly and with more efficiency to gain the race against an infectious challenge (prophylactic vaccines) or a tumour (therapeutic vaccines).

Cited by: 19 **Author:** Adrien Six, Bertrand Bellier, Bertrand Belli...

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This method of categorizing viruses has recently been challenged by **technology advances**, such as high-throughput sequencing. ... it and inhibit its **biological** activity. In **vaccine design**, however ...